

**INDIAN BUREAU OF MINES  
MINERALS DEVELOPMENT AND REGULATION DIVISION**

**MCDR inspection REPORT  
Jabalpur regional office**

**Mine file No :** UP/SONEBHADRA/LST-7

**Mine code :** 38UPR56003

- (i) Name of the Inspecting : **SQ23** ) **SANDEEP KUMAR SINGH**  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine :  
Official with  
Designation
- (iv) Date of Inspection : 03-FEB-20
- (v) Prev.inspection date : 31-JAN-19

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **JULGUL 350.383 HA**
- (b) **Registration NO.** :
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :  
State : UTTAR PRADESH  
District : SONBHADRA  
Village : BILLI MARKUNDI  
Taluka : ROBERTTSGANJ  
Post office : OBRA  
Pin Code : 231207  
FAX No. : 5445 - 265776  
E-mail :  
Phone : 5445 - 265776, 265801. 26
- (f) Police Station :
- (g) First opening date : 16-NOV-07
- (h) Weekly day of rest :
2. Address for :  
correspondance M/S JAIPRAKASH ASSOCIATES LIMITED  
P.O.DALLA, DISTT. SONEBHADRA (U.P.) 231207
3. (a) Lease Number : UPR0225
- (b) Lease area : 350.39
- (c) Period of lease : 20
- (d) Date of Expiry : 13-DEC-21
4. Mineral worked : LIMESTONE Main

## 5. Name and Address of the

Lessee : JAIPRAKASH ASSOCIATES LIMITED  
P.O.DALLA, DISTT.  
SONEBHADRA (U.P.) 231207  
SONBHADRA UTTAR PRADESH  
Phone:  
FAX :

Owner : JAIPRAKASH ASSOCIATES LIMITED  
P.O.DALLA, DISTT.  
SONEBHADRA (U.P.) 231207  
SONBHADRA UTTAR PRADESH  
Phone:  
FAX :

Agent : Shri Ajay Sharma  
M/s Jaiprakash Associates  
Ltd. P.O. Dalla-231207  
Distt. Sonbhadra UP  
SONBHADRA UTTAR PRADESH  
Phone:  
FAX :

## Mining Engineer

Name : ANAND KUMAR MISHRA, Full Time  
Qualification : B.E. 9 Mining)  
Appointment/ : 16-OCT-07  
Termination date

## Geologist

Name : ATUL GAHRANA, Full Time  
Qualification : M.Sc. ( Geology)  
Appointment/ : 16-OCT-07  
Termination date

## Manager

Name : S.D.MAHTO  
Qualification : Diploma in Mining and Ist class Mine Man  
Appointment/ : 16-OCT-07  
Termination date

|                               |   |                                |           |
|-------------------------------|---|--------------------------------|-----------|
| 6. Date of approval of Mining | : | Fresh under rule 22 MCR1960    | 09-JAN-03 |
| Plan/Scheme of Mining         |   | Mining Scheme rule 12 MCDR1988 | 26-OCT-07 |
|                               |   | MP review under 17(1) MCR 2016 | 15-MAY-17 |

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

| Sl.No. | Item  | Proposals                | Actual work  | Remarks                                  |
|--------|---|--------------------------|--|--|
| 1a     | Backlog of previous year  | NIL                      | NIL  |  |
| 1b     | Exploration over lease area for geological axis 1 or 2              | NIL                      | NIL  |  |
| 1c     | Exploration Agencies and Expenditure in lakh rupees during the year | NIL                      | NIL  |  |
| 1d     | Balance area to be explored to bring Geological axis in 1 or 2      | NIL                      | NIL  |  |
| 1e     | Balance reserve as on 01/04/20                                      | reserves as on 1/04/2019 | 1. Proved Mineral Reserve -111- 36<br>2.1. Feasibility Mineral Resource- 211- 34<br>3.6. Reconnaissance Mineral Resource 334- 17 in million tons |  |
| 1f     | General remarks of inspecting officers on geology, exploration etc  |                          |  | no proposal for drilling in review year. |

## Development :

| Sl.No. | Item   | Proposals | Actual work  | Remarks    |
|--------|--|-----------|--|------------|
| 2a     | Location of development w.r.t.lease area                       |           |  |            |
| 2b     | Separate benches in topsoil, overburden and minerals (Rule 15) | yes       | yes made.7-9 mtr bench height benches are made.waste is mainly in side burden and top soil is removed. |            |
| 2c     | Stripping ratio or ore to OB ratio                             | 1:0.20    | 1:0.06   | TON TO TON |

|    |   |        |       |  |
|----|---|--------|-------|--|
| 2d | Quantity of topsoil generation in m3  | 48,493 | NIL   |  |
| 2e | Quantity of overburden generation in m3   | 502170 | 10998 |  |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc |        |       | Deve LOPMENT IS LESS.violation is issued. the pit is well devopled by benching.machines are used in benches. |

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#### Exploitation:

| Sl.No. | Item  | Propasals           | Actual work | Remarks |
|--------|---|---------------------|-------------|---------|
| 3a     | Number of pit proposed for production                             | 3                   | 2           |         |
| 3b     | Quantity of ROM mineral production proposed                       | 2433161 T,finished. | 1906108     |         |
| 3c     | Recovery of sailable/usable mineral from ROM production           | yes                 | yes         |         |
| 3d     | Quantity of mineral reject generation                             | 270371              | 17597       |         |
| 3e     | Grade of mineral rejects generation and threshold value declared. | mgo >5%             | mgo>10%     |         |
| 3f     | Quantity of sub grade mineral generation.                         | NIL                 | NIL         |         |
| 3g     | Grade of sub grade mineral generation                             | NIL                 | NIL         |         |

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|    |  |   |  |                  |
|----|--|---|--|------------------|
| 3h | Manual /<br>Mechanised<br>method adopted<br>for segregating<br>from ROM  | YES SCREENING   | YES SCREENING  |                  |
| 3i | Any analysis or<br>beneficiation<br>study proposed<br>and carried out<br>for sub grade<br>mineral and<br>rejects.      | NO  | NO   |                  |
| 3j | Provision of<br>drilling and<br>blasting in<br>mineral benches   | YES   | YES  |                  |
| 3k | Provision of<br>mining<br>machineries in<br>mineral benches  | YES   | YES  |                  |
| 3l | Whether height<br>of benches in<br>overburden and<br>mineral suitable<br>for method of<br>mining proposed<br>in MP/SOM | 7-9 trs heigt   | 7-9mtr height,yes<br>suitable.   |                  |
| 3m | Total area<br>covered under<br>excavation/pits   | 58.21 hec   | 49.52 hec  |                  |
| 3n | Ore to OB ratio<br>for the pit/mine<br>during the year.  | 1:0.20  | 1:0.06   | LESS DEVELOPMENT |
| 3o | Total area put<br>in use under<br>different heads<br>at the end of<br>year   | 127.303-58.20<br>pit,15.5<br>dump,2.84<br>mineral<br>store,3.699<br>road,42.14<br>infra | 113.525--hect ,(i)<br>Already exploited &<br>abandoned by<br>opencast (O/C) mining<br>0.000 0.000 0.000<br>Covered under current<br>(O/C)<br>Workings 49.520<br><br>Used for waste disposal<br>- 14.201<br>Occupied by plant,<br>buildings,<br>residential, welfare<br>buildings & roads -<br>45.840 |                  |

3p Production of ROM mineral during the last five year period as applicable

|       |         |       |             |
|-------|---------|-------|-------------|
| 17-18 | 2518475 | 17-18 | 1627739.270 |
| 18-19 | 2433161 | 18-19 | 1906108.001 |

3q General remarks of inspecting officers on method of mining etc.

screening is done.development less.violation given.benches are well formed. benches 8-9 mtr.ht.,

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Solid Waste Management - Dumping:

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| Sl.No. | Item   | Propasals | Actual work | Remarks       |
|--------|--|-----------|-------------|---------------|
| 4a     | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33) | YES       | YES         | SCREEN REJECT |

|    |   |   |   |   |
|----|---|---|---|---|
| 4b | Location of topsoil, OB and mineral reject dumps            | REJECT DUMP-1 NORTH SIDE BHALUA TOLA<br>1- 702630.3 E, N<br>2705880.1 N<br>2- 702686.4 E, N<br>2705738.1 N<br>3- 702765.8 E, N<br>2705671.9 N<br>4- 702624.3 E, N<br>2705797.2 N<br>REJECT DUMP-2 NORTH SIDE OF QUARRY<br>NORTH SIDE OF QUARRY<br>1- 702592.6 E, N<br>2705495.2 N<br>2- 702710.8 E, N<br>2705526.9 N<br>3- 702748.5 E, N<br>2705442.0 N<br>4- 702486.1 E, N<br>2705423.3 N<br>REJECT DUMP-3 NEAR WORK SHOP<br>REJECT DUMP-3 NEAR WORK SHOP<br>1- 703106.1 E, N<br>2705676.9 N<br>2- 703229.8 E, N<br>2705674.7 N<br>3- 703249.8 E, N<br>2705300.8 N<br>4- 703115.2 E, N<br>2705689.2<br>REJECT DUMP-4 NEAR RAILWAY LINE | REJECT DUMP-1 NORTH SIDE BHALUA TOLA<br>1- 702630.3 E, 2705880.1<br>2- 702686.4 E, 2705738.1<br>3- 702765.8 E, 2705671.9<br>4- 702624.3 E, 2705797.2<br>REJECT DUMP-2 NORTH SIDE OF QUARRY<br>1- 702592.6 E, 2705495.2<br>2- 702710.8 E, 2705526.9<br>3- 702748.5 E, 2705442.0<br>4- 702486.1 E, 2705423.3<br>REJECT DUMP-3 NEAR WORK SHOP<br>1- 703106.1 E, 2705676.9<br>2- 703229.8 E, 2705674.7<br>3- 703249.8 E, 2705300.8<br>4- 703115.2 E, 2705689.2<br>REJECT DUMP-4 NEAR RAILWAY LINE | REJECT DUMP-4 NEAR RAILWAY LINE<br>1- 703580.3 E, 2705429.5 N<br>2- 703689.9 E, 2705402.2<br>3- 703690.2 E, 2705289.6 N<br>4- 703594.8 E, 2705366.3 N<br>SOIL DUMP-4 NEAR WORK SHOP<br>1- 702994.8 E, 2705620.2 N<br>2- 703038.6 E, 27056350. N<br>3- 703050.6 E, 2705591.1 N<br>4- 702939.4 E, 2705587.7 N |
| 4c | Number of dumps within lease area and outside of lease area | 6 REJECT within lease   | 6 REJECT within lease.  |   |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16)       | OUTSIDE UPL   | OUTSIDE UPL   |   |
| 4e | Number of active and alive dumps.                           | 6   | 6   |   |
| 4f | Number of dead dumps.                                       | nil   | nil   |   |
| 4g | Number of dumps established.                                | 05  | 05  |   |

|    |  |         |      |   |
|----|--|---------|------|---|
| 4h | Whether Retaining wall or garland drain all along dumps are there. | yes     | yes. | not seen in one dump located near mine boundary.violation issued. |
| 4i | Length of Retaining wall or garland drain all along dumps          | 300 mtr | 350  |   |
| 4j | Number of settling ponds   | --      | 2    |   |
| 4k | Specific comments of inspecting officer on waste dump management   |         |      | Dumps are maintained.some plantataion has been done on dumps      |

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Solid Waste Management - Backfilling:

| Sl.No. | Item  | Propasals                  | Actual work | Remarks                             |
|--------|---|----------------------------|-------------|-------------------------------------|
| 5a     | Status of part or full extraction of mineral from mined out area before starting backfilling. | NA                         |             |                                     |
| 5b     | Area under backfilling of mined out area  | NA                         |             |                                     |
| 5c     | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)     | NA                         |             |                                     |
| 5d     | Total area fully reclaimed and rehabilitated  | NA                         |             |                                     |
| 5e     | General remarks of inspecting officers on backfilling and reclamation etc.                    | No backfilling is proposed |             | No backfilling is proposed or done. |

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Progressive Mine Clousre Plan:



| Sl.No. | Item   | Propasals  | Actual work | Remarks |
|--------|--|------------|-------------|---------|
| 6a     | Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).                               | YES        | YES         |         |
| 6b     | Area available for rehabilitation (ha) .   |            |             |         |
| 6c     | afforestation done (ha).   | 8.50       | 5.70        |         |
| 6d     | No. of saplings planted during the year  | 500        | 500         |         |
| 6e     | Cumulative no .of plants   | 8500       | 5700        |         |
| 6f     | Any other method of rehabilitation   |            |             |         |
| 6g     | Cost incurred on watch and care during the year  | 15.00 LACS | 10.00 LACS  |         |
| 6h     | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D | NA         | NA          |         |
| 6i     | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings          | NA         | NA          |         |
| 6j     | Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area         | NA         | NA          |         |

|    |  |      |      |
|----|--|------|------|
| 6k | Compliance on reclamation and rehabilitation by backfilling (iv)<br>Rehabilitation by making water reservoir | NA   | NA   |
| 6l | Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.                    | NA   | NA   |
| 6m | Compliance of rehabilitation of waste land within lease (i) afforestation                                    | 0.33 | 0.33 |
| 6n | Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)                        |      |      |
| 6o | Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation                       |      |      |
| 6p | Compliance of environmental monitoring (core zone and buffer zone)   | YES  | YES  |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.            |      |      |

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Mineral Conservation:

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| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|------|-----------|-------------|---------|
|--------|------|-----------|-------------|---------|

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|    |  |     |     |   |
|----|--|-----|-----|---|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area                           | ROM | ROM |   |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical.                        | NA  | NA  |   |
| 7c | Different grade of mineral sorted out at mines.  | NA  | NA  |   |
| 7d | Any beneficiation process at mines .   | NA  | NA  |   |
| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues |     |     | SCREENING IS DONE AT CRUSHER .to remove soil,waste etc. |

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**Environment:**

| Sl.No. | Item   | Propasals | Actual work              | Remarks    |
|--------|--|-----------|--------------------------|------------|
| 8a     | Separate removal and utilization of topsoil (Rule 32)                  | YES       | YES                      |            |
| 8b     | Concurrent use or storage of topsoil                                   | STORAGE   | STORAGE                  | MAINTAINED |
| 8c     | Separate dumps for overburden, waste rock, rejects and fines (Rule 33) | YES       | Yes for waste rock ,soil |            |

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|    |   |                   |   |  |
|----|---|-------------------|---|--|
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use           | NIL               | NIL   | PITS NOT MATURED   |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | YES               | PLANTATION ON DUMP DONE                     | DUMP NO 1  |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41)                    | YES proposed- 500 | PROVIDED, additional done-500 in lease area |  |
| 8g | Survival rate   | 80                | 63  | LESS   |
| 8h | Water sprinkling on roads to control airborne dust  | YES               | YES   |  |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area                          |                   |   | WATER TANKER PROVIDED<br>PLANTATION DONE<br>0.50 HA area.-<br>green belt development.lot of plants /trees can be seen in mines area. |

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Compliance of Rule 45:

| Sl.No. | Item   | Propasals | Actual work | Remarks |
|--------|--|-----------|-------------|---------|
| 9a     | Status of submission of Monthly and Annual returns | YES       | YES         |         |

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|    |   |  |   |   |
|----|---|--|---|---|
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager           | MINING ENGINEER-ANAND MISRA<br>GEOLOGIST-ATUL GAHRANA  | MINING ENGINEER-ANAND MISRA<br>GEOLOGIST-ATUL GAHRANA | violation issued to appoint a full time geologist.mr gahrana is at balua. |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | (ii) Covered under current Workings 49.520<br><br>(iv) Used for waste disposal 14.201<br>(v) Occupied by plant, buildings, residential, welfare buildings & roads 45.840 | WITHIN FA LIMIT                                       |   |
| 9d | Scrutiny of Annual return on afforestation  | 500 nos with in lease.   | DONE AS PER PLAN                                      |   |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity)                   | 4.2(B) (ii) Mineral Rejects generated with grades (tonnes)<br>a. Quantity 17597<br>b. Grade MgO 10%  | reject generation given                               |   |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore                                      | NO STOCKS  | NO STOCKS   |   |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost                   | CAPTIVE mines, no sales , COP-323.34 rs/Ton  | Rs -323.34/T  |   |
| 9h | Scrutiny of Annual return on fixed assets   | -depreciation -121320772<br>- FA at year end:4892212080  | given   |   |

|    |  |   |               |
|----|--|---|---------------|
| 9k | Scrutiny of<br>Annual return on<br>mining<br>machineries | ROCK DRILL<br>(NONELEC.)<br>150.000 MM 2<br>Non Electrical<br>Opencast<br>SHOVEL<br>(HYDRAULIC)<br>3.500 CUM 3<br>Non Electrical<br>Opencast<br>SHOVEL<br>(HYDRAULIC)<br>2.100 CUM 2<br>Non Electrical<br>Opencast<br>TIPPER 12.000<br>CUM 28 Non<br>Electrical<br>Opencast<br>LOAD HAUL<br>DUMPER 20.000<br>CUM 3 Non<br>Electrical<br>Opencast<br>DOZER 301.000<br>HP 1 Non<br>Electrical<br>Opencast<br>WATER TANKER<br>12000.000<br>LITRE 1 Non<br>Electrical<br>Opencast<br>OTHERS (NON-<br>ELEC.) 110.000<br>2 Non<br>Electrical<br>Opencast<br>JEEP/TRACTOR<br>25.000 HP 1<br>Non Electrical<br>Opencast | LIST is GIVEN |
|----|--|---|---------------|

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**Details of violations observed during current inspection and compliance position of violation pointed out**

| Violation observed |               |               | Show couse position |           |               |
|--------------------|---------------|---------------|---------------------|-----------|---------------|
| Rule NO.           | Issued on     | Compliance on | Rule NO.            | Issued on | Compliance on |
| MCDR17             | Rule 26(2)    | 13-MAY-20     |                     |           |               |
| MCDR17             | Rule 37(2)    | 13-MAY-20     |                     |           |               |
| MCDR17             | Rule 11(1)    | 13-MAY-20     |                     |           |               |
| MCDR17             | Rule 55(1) (1 | 13-MAY-20     |                     |           |               |

**Date :**

**(SANDEEP KUMAR SINGH)**

Indian Bureau of Mines